

Notice of Allowability

Application No.

09/262,934

Examiner

Mohamed Charoui

Applicant(s)

CHEN ET AL.

Art Unit

2857

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/6/06.
2. ☒ The allowed claim(s) is/are 3-16 and 18-20, renumbered.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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1. Applicant canceled claims 1, 2 and 17.

Allowable Subject Matter

2. **Claims 3-16 and 18-10** are allowed.
3. **Claims 3-16 and 18-10** are renumbered.
4. The following is an examiner's statement of reasons for allowance:

Regarding claims 3 and 4, none of the prior art of record teaches or suggests sub-sampling the sampled signal at a second sampling rate to generate a sub-sampled signal having a plurality of sub-sampled data points, the second sampling rate being less than the first sampling rate so that the number of sub-sampled data points is fewer than the number of sampled data points; and convoluting the sub-sampled signal with a wavelet signal to generate a convoluted signal having a plurality of convoluted data points, in combination with the rest of the claim limitations.

Regarding claim 5, none of the prior art of record teaches or suggests transforming the sampled phase angle signal by subtracting each of the plurality of sampled data points from 90 degrees to generate a transformed phase angle signal having a plurality of transformed data points; and convoluting the transformed phase angle signal with a wavelet signal to generate a convoluted signal having a plurality of convoluted data points, in combination with the rest of the claim limitations.

Regarding claims 6-16, none of the prior art of record teaches or suggests sub-sampling the sampled phase angle signal at a second sampling rate to generate a sub-sampled phase angle signal having a plurality of sub-sampled data points, the plurality of sub-sampled data points comprising a sub-set of the plurality of sampled

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data points and transforming the sub-sampled phase angle signal by subtracting each of the plurality of sub-sampled data points from 90 degrees to generate a transformed phase angle signal having a plurality of transformed data points, the plurality of transformed data points being equal in number to the plurality of sub-sampled data points, in combination with the rest of the claim limitations.

Regarding claim 20, none of the prior art of record teaches or suggests sub-sampling said sampled data points at a second sampling rate to generate a plurality of sub-sampled data points; subtracting each of the plurality of sub-sampled data points from 90 degrees to generate a plurality of transformed data points and convoluting the plurality of transformed data points with a plurality of wavelet data points comprising a wavelet signal to generate a plurality of convoluted data points, in combination with the rest of the claim limitations.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact information

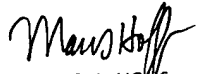
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohamed Charioui whose telephone number is (571) 272-2213. The examiner can normally be reached Monday through Friday, from 9 am to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S Hoff can be reached on (571) 272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mohamed Charioui

3/4/06


MARC S. HOFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2857